	Application No.		
	09/778,747		
Notice of Allowability	Examiner	Art Unit	
·	Taylor Victor Oh	1625	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commul GHTS. This application is su	this application. If not include nication will be mailed in due o	d course. THIS
1. ☐ This communication is responsive to 3/5/2004.		•	
2. The allowed claim(s) is/are <u>1-4</u> .			
3. The drawings filed on are accepted by the Examiner	r.		
 4. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on oted below. Failure to timely comply will result in ABANDONM 	been received. been received in Application cuments have been received of this communication to file a	No in this national stage applicati	
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 	tted. Note the attached EXAI	MINER'S AMENDMENT or NO declaration is deficient.	OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) \square hereto or 2) \square to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		n the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the	drawings in the front (not the l	back) of
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 			
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Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Info	rmal Patent Application (PTO	-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sur Paper No./M	nmary (PTO-413), ail Date	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 2/19/2003	8), 7. Examiner's A	mendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's S 9. ☐ Other	tatement of Reasons for Allow	vance

Reasons for Allowance

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/5/2004 has been entered.

The Status of Claims

Claims 1-4 are pending.

Claims 1-4 have been allowable.

- 1. The following is an examiner's statement of reasons for allowance:
 - The rejection of claim 1 under 35 U.S.C. 112, first paragraph, has been withdrawn due to applicants' convincing argument made in the amendment.
 - The close reference for the current invention is
 Wada et al (WO98/24746), which is equivalent to Wada et al (U.S. 6,028,220).

Application/Control Number: 09/778,747

Art Unit: 1625

Wada et al discloses a process for the preparation of acrolein and acrylic acid by carrying out the vapor phase catalytic oxidation of propylene with molecular oxygen or a gas containing molecular oxygen using a fixed bed multi-tubular reactor.

In the process, a plurality of oxidation catalysts having a composition of the following formula is employed: $Mo_aBi_bNi_cCo_dFe_fY_gZ_hO_x$ where Mo, Bi, Ni, Co, and Fe represent molybdenum, bismuth, nickel, cobalt and iron, respectively; Y is at least one element selected from the group of tin, zinc, tungsten, manganese, magnesium, antimony and titanium; Z is at least one element selected from the group of potassium, rubidium, thallium, and cesium; a, b, c, d, f, g, h, and x represent the number of atoms of molybdenum, bismuth, nickel, cobalt, iron, Y, Z, and oxygen; a=12, b=0.1 to 7, c+d =0.5 to 20, f=0.5 to 8, g=0 to 2, h=0 to 1 and x is determined by the oxidized condition of each element.

However, the instant invention differs from the reference in that the amount of the alkali metal element and different occupying volumes for plural catalysts in the range are unspecified in the prior art; furthermore, there is no motivation in the prior art that the claimed occupying volume decreases from the starting gas inlet side to the outlet side in contrast to the teachings of the Wada et al. Also, filling the reaction tubes in decreasing the occupying volume shows a unexpectedly increase in yield as shown in Table 1 (amendment). In addition, unless all limitations of the claims are met, there is no prior art rejection. See In re Zurko 59 USPQ 2d 1690 (Fed Cir. 1991) and In re Lee, 61 USPQ 1430 (Fed Cir. 1991).

Art Unit: 1625

Therefore, the claimed invention would not have been obvious to the person with an ordinary skill in the art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

Any inquiry concerning the communication after allowance such as sending all post-allowance correspondence should be directed to "Box Issue Fee" or faxed directly to PUBS at 703-305-8755. This will expedite the process of these papers.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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